
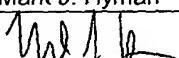


<b>UTILITY PATENT APPLICATION TRANSMITTAL</b> <small>(Only for new nonprovisional applications under 37 CFR 1.53(b))</small>		Attorney Docket No. <b>PZ033P1C2</b>	
		First Inventor <b>Steven M. Ruben</b>	
		Title <b>31 Human Secreted Proteins</b>	
		Express Mail Label No. _____	
<b>APPLICATION ELEMENTS</b> <small>See MPEP chapter 600 concerning utility patent application contents.</small>		<b>ADDRESS TO:</b> MS Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450	
1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) <small>(Submit an original, and a duplicate for fee processing) See 37 CFR 1.27.</small>		7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)	
2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.		8. Nucleotide and/or Amino Acid Sequence Submission <small>(if applicable, all necessary)</small>	
3. <input checked="" type="checkbox"/> Specification <span style="float: right;">[Total Pages <b>339</b>]</span> <small>(preferred arrangement set forth below)</small> <ul style="list-style-type: none"><li>- Descriptive title of the invention</li><li>- Cross Reference to Related Applications</li><li>- Statement Regarding Fed sponsored R &amp; D</li><li>- Reference to sequence listing, a table, or a computer program listing appendix</li><li>- Background of the Invention</li><li>- Brief Summary of the Invention</li><li>- Brief Description of the Drawings (if filed)</li><li>- Detailed Description</li><li>- Claim(s)</li><li>- Abstract of the Disclosure</li></ul>		a. <input type="checkbox"/> Computer Readable Form (CRF)	
4. <input type="checkbox"/> Drawing(s) (35 U.S.C. 113) <span style="float: right;">[Total Sheets _____]</span>		b. Specification Sequence Listing on: <ul style="list-style-type: none"><li>i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or</li><li>ii. <input checked="" type="checkbox"/> Paper (92 pages)</li></ul>	
5. Oath or Declaration <span style="float: right;">[Total Sheets <b>12</b>]</span> <ul style="list-style-type: none"><li>a. <input type="checkbox"/> Newly executed (original or copy)</li><li>b. <input checked="" type="checkbox"/> Copy from a prior application (37 CFR 1.63(d)) <small>(for continuation/divisional with Box 18 completed)</small><ul style="list-style-type: none"><li>i. <input type="checkbox"/> <b>DELETION OF INVENTOR(S)</b> <small>Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</small></li></ul></li></ul>		c. <input checked="" type="checkbox"/> Statements verifying identity of above copies	
6. <input checked="" type="checkbox"/> Application Data Sheet. See 37 CFR 1.76		<b>ACCOMPANYING APPLICATIONS PARTS</b>	
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: <input checked="" type="checkbox"/> Continuation <input type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application No.: <b>09/820,893</b> <small>Prior application information: Examiner <b>Alexander Spiegler</b> Art Unit: <b>1637</b></small>		9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s))	
		10. <input type="checkbox"/> 37 CFR 3.73(b) Statement <input type="checkbox"/> Power of Attorney <small>(when there is an assignee)</small>	
		11. <input type="checkbox"/> English Translation Document (if applicable)	
		12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations	
		13. <input type="checkbox"/> Preliminary Amendment	
		14. <input checked="" type="checkbox"/> Return Receipt and Serial Number Postcards (MPEP 503) <small>(Should be specifically itemized)</small>	
		15. <input type="checkbox"/> Certified Copy of Priority Document(s) <small>(if foreign priority is claimed)</small>	
		16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.	
		17. <input type="checkbox"/> Other: _____	
<b>19. CORRESPONDENCE ADDRESS</b>			
<input checked="" type="checkbox"/> Customer Number or Bar Code Label		 22195	
		or <input type="checkbox"/> Correspondence address below	
Name _____			
Address _____			
City _____		State _____	Zip Code _____
Country _____		Telephone _____	Fax _____
Name (Print/Type) <b>Mark J. Hyman</b>		Registration No. (Attorney/Agent) <b>46,789</b>	
Signature 		Date <b>June 27, 2003</b>	

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<h1 style="margin: 0;">FEE TRANSMITTAL</h1> <h2 style="margin: 0;">for FY 2003</h2> <p style="font-size: small; margin: 0;">Effective 01/01/2003, Patent fees are subject to annual revision.</p>		<b>Complete if Known</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27		Application Number	Not Yet Assigned
<b>TOTAL AMOUNT OF PAYMENT</b> (\$) 906.00		Filing Date	Concurrently Herewith
		First Named Inventor	Steven M. Ruben
		Examiner Name	Not Yet Assigned
		Art Unit	N/A
		Attorney Docket No.	PZ033P1C2

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)																																																																																																																																																																																														
<input type="checkbox"/> Check <input type="checkbox"/> Credit Card <input type="checkbox"/> Money Order <input type="checkbox"/> Other <input type="checkbox"/> None <input checked="" type="checkbox"/> Deposit Account Deposit Account Number: <span style="border: 1px solid black; padding: 2px 20px;">08-3425</span> Deposit Account Name: <span style="border: 1px solid black; padding: 2px 40px;">Human Genome Sciences, Inc.</span> The Director is hereby authorized to: (check all that apply) <input checked="" type="checkbox"/> Charge fee(s) indicated below <input checked="" type="checkbox"/> Credit any overpayments <input checked="" type="checkbox"/> Charge any additional fee(s) during the pendency of this application <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.	<h3 style="margin: 0;">3. ADDITIONAL FEES</h3> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center; border-bottom: 1px solid black;">Large Entity</th> <th colspan="2" style="text-align: center; border-bottom: 1px solid black;">Small Entity</th> <th rowspan="2" style="text-align: left; padding: 5px;">Fee Description</th> <th rowspan="2" style="text-align: center; padding: 5px;">Fee Paid</th> </tr> <tr> <th style="text-align: center; font-size: small;">Fee Code</th> <th style="text-align: center; font-size: small;">Fee (\$)</th> <th style="text-align: center; font-size: small;">Fee Code</th> <th style="text-align: center; font-size: small;">Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1051</td><td>130</td><td>2051</td><td>65</td><td>Surcharge - late filing fee or oath</td><td></td></tr> <tr><td>1052</td><td>50</td><td>2052</td><td>25</td><td>Surcharge - late provisional filing fee or cover sheet</td><td></td></tr> <tr><td>1053</td><td>130</td><td>1053</td><td>130</td><td>Non-English specification</td><td></td></tr> <tr><td>1812</td><td>2,520</td><td>1812</td><td>2,520</td><td>For filing a request for <i>ex parte</i> reexamination</td><td></td></tr> <tr><td>1804</td><td>920*</td><td>1804</td><td>920*</td><td>Requesting publication of SIR prior to Examiner action</td><td></td></tr> <tr><td>1805</td><td>1,840*</td><td>1805</td><td>1,840*</td><td>Requesting publication of SIR after Examiner action</td><td></td></tr> <tr><td>1251</td><td>110</td><td>2251</td><td>55</td><td>Extension for reply within first month</td><td></td></tr> <tr><td>1252</td><td>410</td><td>2252</td><td>205</td><td>Extension for reply within second month</td><td></td></tr> <tr><td>1253</td><td>930</td><td>2253</td><td>465</td><td>Extension for reply within third month</td><td></td></tr> <tr><td>1254</td><td>1,450</td><td>2254</td><td>725</td><td>Extension for reply within fourth month</td><td></td></tr> <tr><td>1255</td><td>1,970</td><td>2255</td><td>985</td><td>Extension for reply within fifth month</td><td></td></tr> <tr><td>1401</td><td>320</td><td>2401</td><td>160</td><td>Notice of Appeal</td><td></td></tr> <tr><td>1402</td><td>320</td><td>2402</td><td>160</td><td>Filing a brief in support of an appeal</td><td></td></tr> <tr><td>1403</td><td>280</td><td>2403</td><td>140</td><td>Request for oral hearing</td><td></td></tr> <tr><td>1451</td><td>1,510</td><td>1451</td><td>1,510</td><td>Petition to institute a public use proceeding</td><td></td></tr> <tr><td>1452</td><td>110</td><td>2452</td><td>55</td><td>Petition to revive - unavoidable</td><td></td></tr> <tr><td>1453</td><td>1,300</td><td>2453</td><td>650</td><td>Petition to revive - unintentional</td><td></td></tr> <tr><td>1501</td><td>1,300</td><td>2501</td><td>650</td><td>Utility issue fee (or reissue)</td><td></td></tr> <tr><td>1502</td><td>470</td><td>2502</td><td>235</td><td>Design issue fee</td><td></td></tr> <tr><td>1503</td><td>630</td><td>2503</td><td>315</td><td>Plant issue fee</td><td></td></tr> <tr><td>1460</td><td>130</td><td>1460</td><td>130</td><td>Petitions to the Commissioner</td><td></td></tr> <tr><td>1807</td><td>50</td><td>1807</td><td>50</td><td>Processing fee under 37 CFR 1.17(q)</td><td></td></tr> <tr><td>1806</td><td>180</td><td>1806</td><td>180</td><td>Submission of Information Disclosure Stmt</td><td></td></tr> <tr><td>8021</td><td>40</td><td>8021</td><td>40</td><td>Recording each patent assignment per property (times number of properties)</td><td></td></tr> <tr><td>1809</td><td>750</td><td>2809</td><td>375</td><td>Filing a submission after final rejection (37 CFR 1.129(a))</td><td></td></tr> <tr><td>1810</td><td>750</td><td>2810</td><td>375</td><td>For each additional invention to be examined (37CFR 1.129(b))</td><td></td></tr> <tr><td>1801</td><td>750</td><td>2801</td><td>375</td><td>Request for Continued Examination (RCE)</td><td></td></tr> <tr><td>1802</td><td>900</td><td>1802</td><td>900</td><td>Request for expedited examination of a design application</td><td></td></tr> <tr> <td colspan="4" style="padding: 5px;">Other fee (specify) _____</td> <td></td> <td></td> </tr> <tr> <td colspan="4" style="text-align: right; 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EXTRA CLAIM FEES FOR UTILITY AND REISSUE</h3> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 5px;">Total Claims</th> <th style="text-align: center; padding: 5px;">24</th> <th style="text-align: left; padding: 5px;">-20** =</th> <th style="text-align: center; padding: 5px;">4</th> <th style="text-align: left; padding: 5px;">x</th> <th style="text-align: center; padding: 5px;">18.00</th> <th style="text-align: left; padding: 5px;">=</th> <th style="text-align: center; padding: 5px;">72.00</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Independent Claims</td> <td style="text-align: center; padding: 5px;">4</td> <td style="text-align: left; padding: 5px;">-3** =</td> <td style="text-align: center; padding: 5px;">1</td> <td style="text-align: left; padding: 5px;">x</td> <td style="text-align: center; padding: 5px;">84.00</td> <td style="text-align: left; padding: 5px;">=</td> <td style="text-align: center; padding: 5px;">84.00</td> </tr> <tr> <td style="padding: 5px;">Multiple Dependent</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center; border-bottom: 1px solid black;">Large Entity</th> <th colspan="2" style="text-align: center; border-bottom: 1px solid black;">Small Entity</th> <th rowspan="2" style="text-align: left; padding: 5px;">Fee Description</th> <th rowspan="2" style="text-align: center; padding: 5px;">Fee Paid</th> </tr> <tr> <th style="text-align: center; font-size: small;">Fee Code</th> <th style="text-align: center; font-size: small;">Fee (\$)</th> <th style="text-align: center; font-size: small;">Fee Code</th> <th style="text-align: center; font-size: small;">Fee (\$)</th> </tr> </thead> <tbody> <tr><td>1202</td><td>18</td><td>2202</td><td>9</td><td>Claims in excess of 20</td><td></td></tr> <tr><td>1201</td><td>84</td><td>2201</td><td>42</td><td>Independent claims in excess of 3</td><td></td></tr> <tr><td>1203</td><td>280</td><td>2203</td><td>140</td><td>Multiple dependent claim, if not paid</td><td></td></tr> <tr><td>1204</td><td>84</td><td>2204</td><td>42</td><td>** Reissue independent claims over original patent</td><td></td></tr> <tr><td>1205</td><td>18</td><td>2205</td><td>9</td><td>** Reissue claims in excess of 20 and over original patent</td><td></td></tr> <tr> <td colspan="4" style="text-align: right; padding: 5px;"> <b>SUBTOTAL (2)</b> (\$) 156.00           </td> <td></td> <td></td> </tr> </tbody> </table> <p style="font-size: x-small; margin-top: 5px;">**or number previously paid, if greater; For Reissues, see above</p>	Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1001	750	2001	375	Utility filing fee	750.00	1002	330	2002	165	Design filing fee		1003	520	2003	260	Plant filing fee		1004	750	2004	375	Reissue filing fee		1005	160	2005	80	Provisional filing fee		<b>SUBTOTAL (1)</b> (\$) 750.00						Total Claims	24	-20** =	4	x	18.00	=	72.00	Independent Claims	4	-3** =	1	x	84.00	=	84.00	Multiple Dependent								Large Entity		Small Entity		Fee Description	Fee Paid	Fee Code	Fee (\$)	Fee Code	Fee (\$)	1202	18	2202	9	Claims in excess of 20		1201	84	2201	42	Independent claims in excess of 3		1203	280	2203	140	Multiple dependent claim, if not paid		1204	84	2204	42	** Reissue independent claims over original patent		1205	18	2205	9	** Reissue claims in excess of 20 and over original patent		<b>SUBTOTAL (2)</b> (\$) 156.00						<h3 style="margin: 0;">SUBMITTED BY</h3> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: left; padding: 5px;">Name (Print/Type)</th> <th style="text-align: left; padding: 5px;">Registration No. (Attorney/Agent)</th> <th style="text-align: left; padding: 5px;">Telephone</th> <th style="text-align: left; padding: 5px;">Date</th> </tr> </thead> <tbody> <tr> <td colspan="2" style="padding: 5px;">Mark J. Hyman</td> <td style="padding: 5px;">46,789</td> <td style="padding: 5px;">(240) 314-1224</td> <td style="padding: 5px;">June 27, 2003</td> </tr> <tr> <td colspan="2" style="padding: 5px;"> <div style="border-bottom: 1px solid black; width: 100%; height: 20px; position: relative;"> <span style="position: absolute; bottom: 5px; left: 0; font-family: cursive;">[Signature]</span> </div> </td> <td colspan="3" style="padding: 5px;"></td> </tr> </tbody> </table>	Name (Print/Type)		Registration No. (Attorney/Agent)	Telephone	Date	Mark J. Hyman		46,789	(240) 314-1224	June 27, 2003	<div style="border-bottom: 1px solid black; width: 100%; height: 20px; position: relative;"> <span style="position: absolute; bottom: 5px; left: 0; font-family: cursive;">[Signature]</span> </div>																																																															
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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Ruben et al.

Docket No.: PZ033P1C2

Application No.: Not Yet Assigned

Group Art Unit: N/A

Filed: Herewith

Examiner: Not Yet Assigned

For: 31 Human Secreted Proteins

**STATEMENT UNDER 37 C.F.R. § 1.821(e)**

MS SEQUENCE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The above-identified patent application is a continuation of application Serial No. 09/531,119, filed March 20, 2000. The sequence listing of the instant application is identical to the sequence content of the computer readable sequence listing filed in connection with application Serial No. 09/531,119, on March 20, 2000.

In accordance with 37 C.F.R. § 1.821(e), please use the computer readable form filed in connection with application Serial No. 09/531,119 as the computer readable form for the instant application. It is understood that the Patent and Trademark Office will make the necessary change in application number and filing date for the computer readable form that will be used for the instant application. A paper copy of the Sequence Listing is included in the specification of the instant application filed herewith. Applicants hereby certify that the paper copy of the

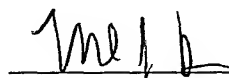
Application No.: Not Yet Assigned

Docket No.: PZ033P1C2

Sequence Listing filed herewith and the computer readable sequence listing filed on March 20, 2000 in connection with application Serial No. 09/531,119 are the same and do not include new matter.

Respectfully submitted,

Dated: June 27, 2003



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Mark J. Hyman

Registration No.: 46,789  
HUMAN GENOME SCIENCES, INC.  
9410 Key West Avenue  
Rockville, Maryland 20850  
(240) 314-1224